

Notice of Allowability

Application No.

09/841,077

Examiner

Juan A. Torres

Applicant(s)

YAMAWAKI, MASASHI

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment - After Non-Final Rejection filed 04/06/2007.
2. ☒ The allowed claim(s) is/are 1-7, 9-16 and 18-19 (renumbered to 1-17).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Data processor and data processing method for detecting synchronization using parallel detecting units".

Response to Arguments

Applicant's arguments, see Amendment - After Non-Final Rejection, filed 04/06/2007, with respect to claims 1, 10 and 11 have been fully considered and are persuasive. The rejection of claims 1, 10 and 11 has been withdrawn.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michele L. Connell on 6/6/07.

The application has been amended as follows:

In claim 1, the recitation in lines 8-9 of claim 1 "; and" is changed to ";".

In claim 10, the recitation in lines 10-11 of claim 10 "; and" is changed to ";".

Allowable Subject Matter

Claims 1-7, 9-16 and 18-19 (renumbered to 1-17) are allowed.

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The following is an examiner's statement of reasons for allowance: claims 1-7, 9-16 and 18-19 (renumbered to 1-17) are allowed because the references cited fail to teach, as applicant has, a data processor comprising a receiving unit for receiving a series of data including only one a predetermined mark for detecting synchronization and generating parallel data from the series of data, and a plurality of detecting units being provided at each bit position of the parallel data, the detecting units being adapted to detect whether strings of bits of the parallel data corresponding to strings of bits of the series of data from each bit position of the parallel data as a starting point of the predetermined mark are the predetermined mark, where any one of the detecting units detects the starting point of the predetermined mark; a data processor for detecting only one a predetermined mark for detecting synchronization that is included in a series of data read from a memory medium in order to establish synchronization at a time of transferring the series of data to a controller unit from a read channel unit, comprising a receiving unit for receiving the series of data including the predetermined mark for detecting synchronization and generating parallel data from the series of data, and a plurality of detecting units being provided at each bit position of the parallel data, the detecting units being adapted to detect whether strings of bits of the parallel data corresponding to strings of bits of the series of data from each bit position of the parallel data as a starting point of the predetermined mark are the predetermined mark, where any one of the detecting units detects the starting point of the predetermined mark; and a data processing method comprising the following steps of receiving a series of data including only one a predetermined mark for detecting synchronization; generating a

parallel data from the series of data, detecting the predetermined mark for detecting synchronization from any one of strings of bits of the parallel data continuing from each bit position of the parallel data to establish synchronization of the series of data, and demodulating the series of data based on the predetermined mark for detecting synchronization detected from one of the bit strings, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is 571-272-3119. The examiner can normally be reached on 8-6 M-F.

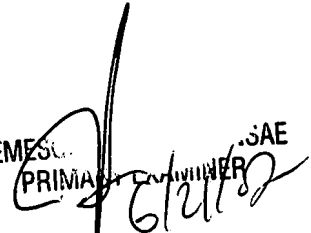
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres
06-06-2007

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PRIMARY EXAMINER



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